Software Requirements Specification

Project: HAS_51

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1 Introduction

[SRS-1] Project name : Hotel Automation System

Group id : 08

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Type: Information

1.1 Purpose

[SRS-2] The purpose of HAS is to provide and maintain every details of hostel management staff, catering staff, customers etc. on single click.

Type: Section

1.2 Scope

[SRS-3] HAS will simplify the day by day processes of the hotel. Customers and staff can access information via application or on the spot.

Type: Section

1.3 Product perspective

[SRS-4] The database should contains the details of customers, room details, catering food stock etc.

Type: Section

1.3.1 System interfaces

[SRS-5] The system should be promoted by the database with the details of rooms, catering and customers.

Type: Interface Requirement

1.3.2 User interfaces

[SRS-6] It should be an application or website with facilities like booking, bill generator and access to database for some extend and it can be able to run on browsers.

Type: Interface Requirement

1.3.3 Hardware interfaces

[SRS-7] The website or application should be able to run on any browser in any electronic devices like pc, mobile, laptop etc.

Type: Interface Requirement

1.3.4 Software interfaces

[SRS-8] Web server and database server will be OS like windows, ubuntu. The backend development will be created by Java, HTML, JavaScript.

Type: Interface Requirement

1.3.5 Communications interfaces

[SRS-9] The system shall be using HTTP or HTTPS protocol for communication over Internet and for intranet communications, it shall use TCP or IP protocol.

Type: Interface Requirement

1.3.6 Memory constraints

[SRS-10] The system is web based so the storage concern will not happen. Use of dissent RAM will solve the RAM concern.

Type: Non-func. Requirement

1.3.7 Operations

[SRS-11] Customer can register by providing username and phone number and other details.

To get the room details, room type and duration should be chosen first.

Payment method should be chosen to make safe payment and after that bill will be generated.

The database should be update at a time.

Type: Functional Requirement

1.3.8 Site adaptation requirements

[SRS-12] Usability

Availability

Maintainability

Type: Functional Requirement

1.3.9 Interfaces with services

[SRS-13] Login or register using email/phone number with password.

There should be facility for registration or updating in database.

Type: Functional Requirement

1.4 Product functions

[SRS-14] There will be first Login or Register. Then room details with availability, booking details, payment with different methods and feedback acceptance.

Type: Functional Requirement

1.5 User characteristics

[SRS-15] Manager - He / She should be able to have access of the whole database of hotel so that he / she can perform any task related to booking or managing.

Receptionist - He / She should be able to update the details of the database according to customer details, room allotment and availability.

Customer - He / She should have access of the database of room details like room type, rate, booking, availability.

Type: Section

1.6 Limitations

[SRS-16] Customers must register through website or application after he/she can have access of other facilities.

Type: Section

[SRS-17] After registration, customer will have valid credentials for login.

Customer should provide valid details in registration.

Type: Section

1.8 Definitions

[SRS-18] Features and services are already discussed.

Type: Section

1.9 Acronyms and abbreviations

[SRS-19] HAS - Hotel Automation System

HTTP - Hyper Text Transfer Protocol

OS - Operation System

HTML - Hyper Text Markup Language

TCP - Transmission Control Protocol

IP - Internet Protocol

Type: Interface Requirement

2 Requirements

Type: Section

2.1 External interfaces

[SRS-21] For payment service, different methods will be used.

Type: Interface Requirement

2.2 Functions

[SRS-22] Manager or Receptionist : It allows them to login and update the details in database including to see details of customers, rooms, booking details, updating rates etc.

Customers : It allows them to login and see the details of themselves and give access the services like booking, room details, payment, feedback etc.

Type: Functional Requirement

2.3 Usability requirements

[SRS-23] There should be a user guide tour for new customers.

Type: Interface Requirement

2.4 Performance requirements

[SRS-24] After successful login or registration, the customer profile will be visible with name and necessary details.

Type: Non-func. Requirement

2.5 Logical database requirements

[SRS-25] User data is kept on application and website and also in database.

Type: Non-func. Requirement

2.6 Design constraints

[SRS-26] To make system more responsive there will be worker and queue model(Queue will have the messages and worker will triggered and execute when it receive messages from the queue).

Type: Interface Requirement

2.7 Standards compliance

[SRS-27] There will be secured payment under payment security standards.

Type: Information

2.8 Software system attributes

[SRS-28] Correctness, Flexibility, Integrity, Portability, Testability

Type: Non-func. Requirement

3 Verification

[SRS-29] The improvement and update will be done on the basis of user feedback.

Type: Information

4 Supporting information

[SRS-30] The system facilities are implemented on basis of other well known hotel services and customer requirement survey.

Type: Information

5 References

[SRS-31] https://www.poloheritage.com/

https://www.makemytrip.com/hotels/

https://www.goibibo.com/hotels/

Type: Information